

**Centre for Open and Distance Learning (CODL)
Sabaragamuwa University of Sri Lanka**

CERTIFICATE IN ADVANCED COMPUTER AIDED DRAWING

Introduction

The Sabaragamuwa University of Sri Lanka (SUSL) has the unique capability of catering to the higher educational needs of the Sabaragamuwa and Uva provinces. One of the prime objectives of the University is to fulfill these needs of the community. It is a common understanding that the residents in these provinces have a severe lack of access to computer facilities and hence, less opportunities, to improve their computer skills.

It provides the opportunity to improve and develop programming & designing skills needed in a number of professional situations. The course will mainly emphasize on theory and practical aspects of the Designing and Application of the Advanced Computer Drawings. .

Objective of the course

School leavers, undergraduates and graduates are desperately in need of good Computer literacy, programming & designing skills etc, to be competitive in the job market. Further, those who are employed, have the need to improve their general computer knowledge to meet the professional demands of their career.

In order to fill this vacuum, the Extension service Unit of the Sabaragamuwa University has decided to offer a Certificate Courses in Advanced Computer Aided Drawing, according to the Sri Lanka Qualifications Framework (SLQF) –Level-01

Learning outcome of the course

After the completion of the course students will be able to acquire their knowledge in Drawing skills, designing and Apply Advanced Computer Aided Drawing.

Duration

The course duration is seven months (26 weekends part time – Saturdays only). Classes would be held in Saturday (8.30 a.m. to 4.30 p.m.)

Medium of the Course

English/Sinhala

Eligibility

G.C.E (O/L) or above or any other qualifications accepted by the University

Course Fees: -

Application Fee: Rs. 500.00
Course Fee: Rs. 15,000.00 for each course

Participants can pay the course fee in two installments as follows.

At registration	Rs. 9,000.00
Within five months	Rs. 6,000.00

Course Content

ADVANCED COMPUTER AIDED DRAWING SYLLABUS

1. FUNDAMENTALS IN AUTOCAD DRAWINGS

- Chapter 02 –Coordinates Systems, Status Toggles and Drafting settings
- Chapter 03 – Important Tool Bars in AutoCAD
- Chapter 04 – Important Palettes in AutoCAD
- Chapter 05 – Page Setup, Plot & Publish

2. ADVANCED DRAWINGS IN AUTOCAD

3. AUTOCAD TIPS & TRICKS

- Chapter 01 - The Drawing Environment
- Chapter 02 – Basic CAD Drawing Techniques
- Chapter 03 – Layers and Line types
- Chapter 04 – Advanced Text and Hatching Techniques
- Chapter 05 – Advanced Object Snaps
- Chapter 06 – Advanced Editing Skills
- Chapter 07 – Advanced Dimensioning
- Chapter 08 – Using Symbols
- Chapter 09 – Plotting

4. Project in AutoCAD 2D Drawings

5. 3D DRAWINGS IN AUTOCAD

- Chapter 01 – 3D Modeling and Isometric Drawings
- Chapter 02 –Wireframe Models and 3D Visualizations
- Chapter 03 – Working with Basic Modeling Tools

6. ADVANCED 3D DRAWINGS IN AUTOCAD

- Chapter 01 – 3D Operations, Solid Editing and Surface Editing
- Chapter 02 – Applying Material and Render
- Chapter 03 – Create Camera, Lights and Animation

7. OPEN SOURCE CAD AND SKETCH-UP DRAWINGS

- **Introduction to 3dsMax**
- **Basics of 3D Modeling & Animation in 3dsMax**
- **CAD DRAWINGS FOR SURVEYORS (ZWCAD)**

Lecturing Staff

University Academic Staff

Course Coordinator

Mr. M.D.C. De S. Jayathilake

Coordinator, IT Professional Course

Centre for Open & Distance Learning

Sabaragamuwa University of Sri Lanka, P.O. Box 02, Belihuloya, 70140.

Administration

Director / Centre for Open and Distance Learning

Ph.D in Economics, M.Sc in Mgt, B.Sc in Finance

The Students have to correspond with the office of Director / Centre for Open and Distance Learning, for registration, examination and relevant administration work.

Contact Address

Director / Centre for Open and Distance Learning

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